

IMPROVED SYSTEM AND METHOD FOR ASCERTAINING ANGLE OF ARRIVAL OF AN ELECTROMAGNETIC SIGNAL

ABSTRACT OF THE DISCLOSURE

A system for ascertaining angle of arrival of an electromagnetic signal having at least one signal characteristic indicating a first state or a second state includes: (a) a plurality of n antenna
5 elements intersecting a common axis and cooperating to establish $2n$ sectors; each respective sector being defined by two antenna elements and the axis; the signal characteristic indicating the first state on a first side of each antenna element and indicating the second state on a second side of each antenna element; combinations of the signal characteristics in each respective sector uniquely
10 identifying the respective sector; and (b) an evaluation apparatus coupled with the antenna elements and employing the state of the signal characteristic sensed by each of the antenna elements to effect ascertaining angle of arrival to a resolution of at least one respective sector.